

# Soil Investigation

## Soil Temperature Data Work Sheet

Site Name: \_\_\_\_\_

Name of Collector/Analyst/Recorder: \_\_\_\_\_

Sample collection date: \_\_\_\_\_

time: \_\_\_\_\_ (hours and minutes) check one: UT\_\_\_\_ Local \_\_\_\_

Soil Thermometer: Dial \_\_\_\_\_ Digital \_\_\_\_\_ Other \_\_\_\_\_

Current Conditions: Rain within last 24 hours? Yes \_\_\_\_\_ No \_\_\_\_\_

### **Daily Metadata/Comments: (optional)**

### **Directions:**

Take 3 sets of soil temperature measurements adjacent to your soil moisture STAR pattern or Atmosphere Instrument Shelter at 5 and 10 cm depth on a weekly basis. Use sample lines 1-3 below (3 samples x 2 depths = 6 measurements). Complete these measurements within 20 minutes of one another and within 1 hour of local solar noon.

OR

Measure the diurnal variation of soil temperature seasonally or at least 3 times/yr. by measuring soil temperature at 5 and 10 cm every 2 to 3 hours during the daytime. Use as many sample lines below as you have measurement times (try to have at least 5). This must be done on two consecutive days. Report each day separately. Additional space is available for classes who want to report diurnal data more frequently or for more hours. Use the graph below to plot soil temperature vs. time-of-day.

### **Observations:**

Sample No.	Time		Temperature	
	(hr)	(min)	5cm (C)	10 cm (C)
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____
6	_____	_____	_____	_____
7	_____	_____	_____	_____
8	_____	_____	_____	_____

